

What is claimed is:

1. A Silicon Card For Reading Device by applying SATA comprising:

5 a SATAI that connects with a Data Processing Device generates a connected signal to the First Wafer Module;

a first Wafer Module converts the SATAI into the IDEI when it receives the connected signal and generates a converted signal to the Second Wafer Module;

10 a Second Wafer Module connects with the First Wafer Module to process the input and output controlling, programming of the Silicon Card For Reading Device, and reading the external plugging media storage. Once it receives the connected signal as described above, it will be in waiting state and examine the utilization of the media storage at any moment;

15 a reading Card Unit connects with the Silicon Card For Reading Device's external media storage and supports at least two Plugging Slot allowing external media devices to connect with Silicon Card For Reading Device.

20 2. The Silicon Card For Reading Device by applying SATAI according to Claim 1 wherein the SATAI can be a connector with 7 PIN and connects with the SATA Bus.

25 3. The Silicon Card For Reading Device by applying SATAI according to Claim 1 wherein the Reading Card Unit Comprising:

a First Slot can be designed as a PCMCIA or CF interface allowing to support ATA Device, ATA Flash Card, Compact Flash Card type I/II, Micro Drive etc;

30 a Second Slot can be designed as a particular interface allowing to support one of SD, MMC, RS MMC, MMC ROM Card, XD etc, or designed as a combined interface in order to use various memory cards at the same or different times;

35 a First Plugging Slot and the Second Plugging Slot control their working time through the Second Wafer Module 220.

40 4. The Silicon Card For Reading Device by applying SATAI according to Claim 1 or 3 wherein the means that the Second Wafer Module uses the Reading Card can be either single using the first plugging slot, the Second Plugging slot, or using repetition of anyone of the First Plugging Slot and the Second Plugging slot at the same time.

5. The Silicon Card For Reading Device by applying SATAI according to Claim 1 or 3, a Switch Unit can be designed to add to the Silicon Card For Reading Device to provide a function of automatically switching between using the First Plugging Slot and the Second Plugging Slot by user.

6. The Silicon Card For Reading Device by applying SATAI comprising:

a SATAI that connects with a data Processing Device and generates a connected signal to the First Wafer Module;

a Central Wafer Module that connects with SATAI and is used to process the input and output controlling, programming of the Reading Device, and reading the external plugging media storage. Once it receives the connected signal, it will be in waiting state and examine the utilization of the media storage at any moment;

a Reading Card Unit that is used to connect with its external media storage and comprises at least two plugging slots so that its external media storage can connect with it; accordingly, a Silicon Card For Reading Device for data transfer in serial interface is assembled.

7. The Silicon Card For Reading Device by applying SATAI according to Claim 6 wherein the SATAI can be an interface with 7 PIN and connects with the SATA Bus.

8. The Silicon Card For Reading Device by applying SATAI according to Claim 6 wherein the Reading Card Unit comprising:

a First Plugging Slot that can be designed as a PCMCIA or CF interface allowing to support ATA Device, ATA Flash Card, Compact Flash Card type I/II, Micro Drive etc;

a Second Slot can be designed as a particular interface allowing to support one of SD, MMC, RS MMC, MMC ROM Card, XD etc, or designed as a combined interface in order to use various memory cards at the same time or different time.

a First Plugging Slot and The Second Plugging Slot as described above control their working time through the Central Wafer Module 220.

9. The Silicon Card For Reading Device by applying SATAI according to Claim 6 or 8 wherein the means that the Central Wafer Module uses the Reading Card Unit can be either using only the First Plugging Slot, the Second Plugging Slot, or using repetition of anyone of the First Plugging Slot and the Second Plugging Slot at the same time.

10. The Silicon Card For Reading Device by applying SATAI according to Claim 6 or 8 wherein the Reading Device provides a Switch

Unit to switch using plugging slot between the First Plugging Slot and the Second Plugging Slot by user.

- 5            11. The Silicon Card For Reading Device by applying SATAI according to Claim 1 or 6 wherein the Reading Cell can be designed as the interface with single plugging slot by applying CF interface.